Organisms and their Environment Question Paper

Level	IGCSE
Subject	Biology
Exam Board	CIE
Торіс	Organisms and their environment
Sub-Topic	
Paper Type	Alternative to Practical
Booklet	Question Paper

Time Allowed:	14 minutes	
Score:	/11	
Percentage:	/100	

¹ Fig 3.1 shows a choice chamber.

dark and dry

light and dry

dark and moist

- This apparatus can be used to study the behaviour of small invertebrates, such as woodlice, in different conditions.
- 60 woodlice were introduced through the central hole.
- The four sections of the choice chamber had different conditions as shown in Fig. 3.1.

light and moist central hole dark and dark and lid dry moist moist paper dry paper side view key moist light and light and moist dry dark surface view



- The choice chamber was left undisturbed for 10 minutes.
- The numbers of woodlice in each section were counted.
- The numbers were recorded in Table 3.1.
- These woodlice were released into their natural environment.
- The investigation was repeated with three more samples of woodlice.

(a) (i)

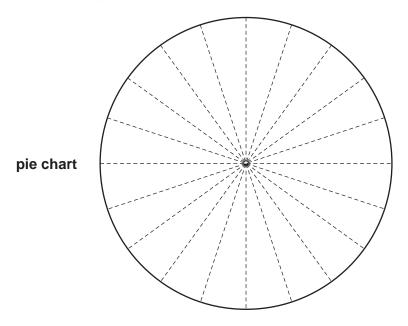
light and sample of dark and dark and dry light and dry woodlice moist moist 1 1st 47 4 8 2nd 4 56 0 0 52 1 2 3rd 5 4th 7 49 2 2 total 204 8 51 2 average

Table 3.1

Complete Table 3.1. The calculations for the moist sections have been completed for you.

[2]

(ii) Plot the average number of woodlice in each condition on the **pie chart** below.



(b)	(i)	State which conditions the woodlice prefer.
		[1]
	(ii)	Suggest how this behaviour might help the woodlice to survive in their natural habitat.
		[2]
(c)	Suç	ggest how you could improve this investigation to make the results more reliable.
		[3]

[Total 11]